RETURN TO
DESIGN DIV.

Gray Res. Div
5/17/49 = Gift

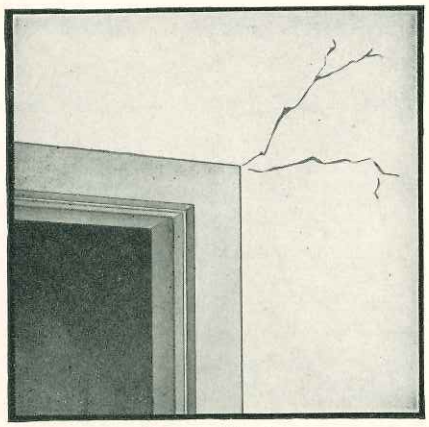
DESIGN

TRUSCON

METAL LATH PRODUCTS AND ACCESSORIES

P. 3

Resists Fire



Resists Cracks

Permanent

RESISTS FIRES—PREVENTS CRACKS
LASTS INDEFINITELY

Metal Lath is the plaster base for walls and ceilings that meets all the requirements of modern construction. It is easy to erect and work over, yet is capable of being formed into unusual shapes for arches, coves, plaster fireplaces, and curved walls and stairways. Metal Lath actually grips the plaster, locking it around the strands of steel, which form the openings, holding the plaster in place, even though subjected to violent shocks and vibration.

All Truscon metal lath products are manufactured in accordance with U. S. Dept. of Commerce, Simplified Practice Recommendations R344.

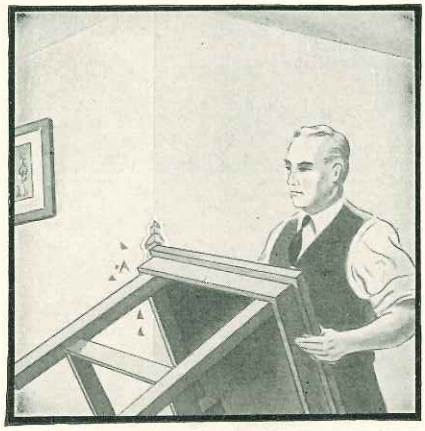
PATENT OFFICE
JUL 15 1949

No. B—500
AUGUST, 1948

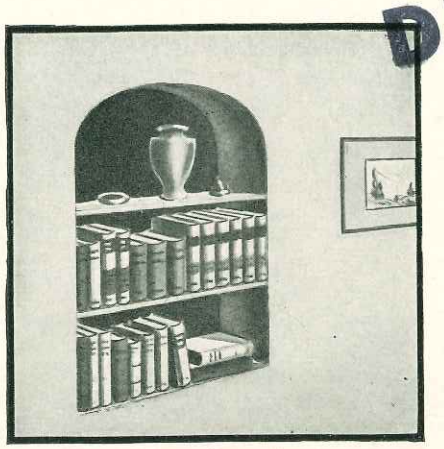
DESIGN DIVISION

TRUSCON STEEL COMPANY
YOUNGSTOWN 1, OHIO
SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES
Subsidiary of Republic Steel Corporation

RETURN TO
DESIGN DIV.



Corner Beads Protect Exposed Corners



Easily Formed

Resists Sound

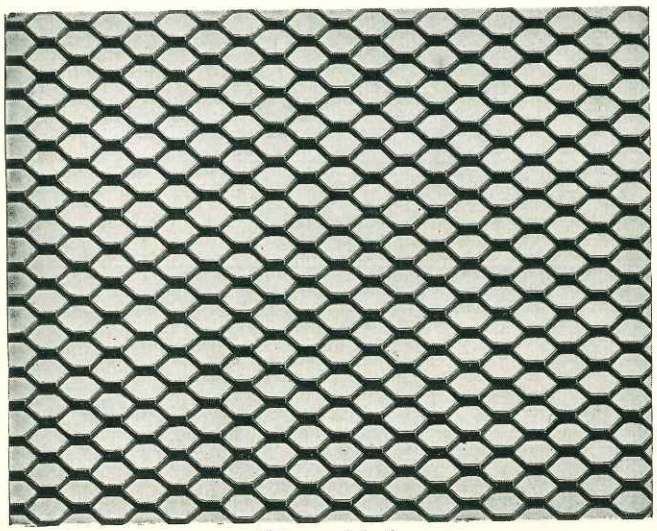
TRUSCON Diamond Metal Lath

Truscon Diamond Lath is a flat metal lath, uniformly expanded throughout the entire sheet. Its use is almost universal, for it is adaptable for practically all classes of work — as a base for walls, partitions, ceilings, as a reinforcement for stucco, as a protection for steel beams, and columns, and for protecting hazardous points in wood frame construction — such as ceilings under inhabited floors, especially over heating plants and coal bins, around flues, and back of kitchen ranges, stair wells, and under stairs.

Diamond Lath has more openings in a given area, with a proportionate increase in the area of steel. The increased proportion of steel gives the sheets great rigidity. They are easily handled and quickly erected, and less time is taken in applying the scratch coat and truing up the wall than with ordinary diamond lath. The small openings prevent excess penetration of plaster, thus minimizing droppings. The larger number of openings permits the formation of more keys to give efficient bondings of the plaster to the lath.

Truscon Diamond Lath is made in sheets 27 x 96 in., the largest practical size. It is made by the center expanding process, and after expansion each sheet is passed between heavy rolls to make it smooth and flat and remove any distortion. The ends of each sheet are trimmed square and true.

Weights per Sq. Yard		Sizes of Sheets, Inches	Area of Sheets, Sq. Yds.	Sheets per Bundle	Sq. Yds. per Bundle	Weight per Bundle
Galv.	Copper Alloy Painted					
	2.5	27 x 96	2	10	20	50
3.4	3.4	27 x 96	2	10	20	68



Diamond Lath

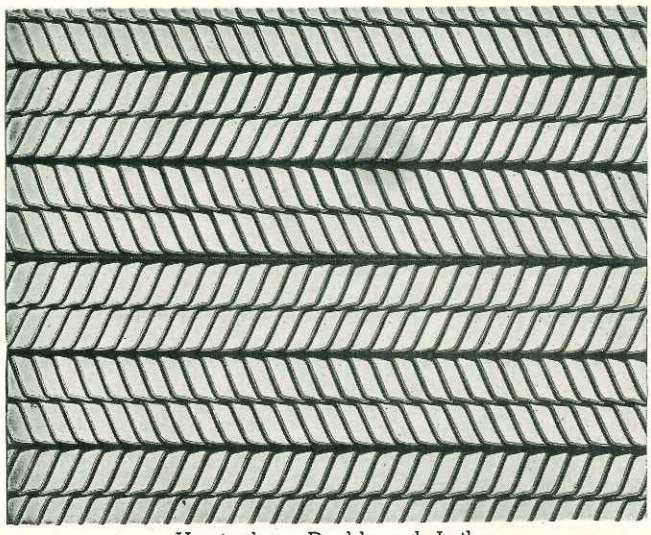
TRUSCON *Herringbone Doublemesh Metal Lath

Truscon Herringbone Doublemesh is a flat rib lath designed for interior, one side plastering. It embodies all the advantages of Metal Lath in general, and in addition, because of its scientific design, offers construction features which make it the most preferred lath for its particular purpose on the market.

The large size of the sheets (27 x 96 in.) means less labor is required to lath a room. At the same time, the interlocking edges afford a perfect joint without wastage of material at the laps. A study of the Herringbone Doublemesh pattern will show why less plaster is required to do a good job. Herringbone Doublemesh has a small mesh between the ribs, approximately 1200 to the square foot. The longitudinal ribs are at an angle to the plane of the sheet, and serve as supporting and reinforcing members for the lath and plaster. They serve as baffle plates to deflect the excess mortar back against the trowel, and as shelves upon which the mortar rests and is held in place while setting. Because of the rigidity of the sheets no stretching is required, and studs may be placed farther apart without the lath sagging or bending when plaster is applied; hence no leveling off to do when the brown coat of plaster is applied.

RETURN DESIGN

Weights per Sq. Yard	Size of Sheets, Inches	Area of Sheets, Sq. Yds.	Sheets per Bundle	Sq. Yds. per Bundle	Weight per Bundle
Copper Alloy Painted					
2.75	27 x 96	2	10	20	55.5
3.4	27 x 96	2	10	20	68



Herringbone Doublemesh Lath

* Reg. U. S. Pat. Off.

TRUSCON ⅜-in. Ribplex Lath

The extreme rigidity of Ribplex Lath due to the ⅜-in. Ribs, on 4-in. centers, permits a wider spacing of studs and ceiling supports. The ribs take the place of furring strips — a saving of material and time of erection, and nest together at sides and ends to make a rigid splice and a uniform plastering surface.

⅜-in. Ribplex Lath is furnished in copper alloy steel standard sheets 24 in. wide by 96 in. long. Packed 9 sheets — 16 square yards per bundle. The flattened strands in ⅜-in. Ribplex decrease the size of the mesh openings and give a perfect key while requiring a minimum amount of plaster.

TRUSCON ⅜" RIBPLEX LATH

PATENT OFFICE
JUL 15 1949
DESIGN DIVISION

Weights per Sq. Yd. Copper Alloy Painted	Sizes of Sheets Inches	Area of Sheets Sq. Yds.	Sheets per Bundle	Sq. Yds. per Bundle	Weight per Bundle Pounds
3.[illegible]	24 x 96	1-7/9	9	16	54.5
4.[illegible]	24 x 96	1-7/9	9	16	64.0

Truscon ⅜" Ribplex Lath is widely used as combination form, centering and reinforcing for concrete slabs in steel construction.

TRUSCON *Self-Sentering Lath

Truscon Self-Sentering is a ribbed expanded metal lath with the ribs $\frac{11}{16}$ in. high and spaced 3⅝ in. on center. The ribs are connected by a diamond mesh — all cut and drawn from one sheet of steel. A beveled edge where the mesh and ribs join adds considerably to the strength of the sheet. Self-Sentering serves as both form and reinforcement for concrete floors and roofs, sidewalls and partitions.

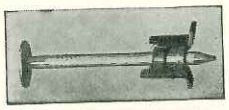
Self-Sentering sheets are 29 in. wide, the widest of any material made for a similar purpose. The sheets can be curved at the factory to any desired radius, 12 in. or larger, with the ribs always on the outside of the arc, making it adaptable for arched floor or roof slabs, tanks or culverts.

Bundled 10 sheets per bundle. Furnished in copper alloy steel. Furnished in 8-, 10- and 12-ft. lengths.

TRUSCON Stucco Mesh

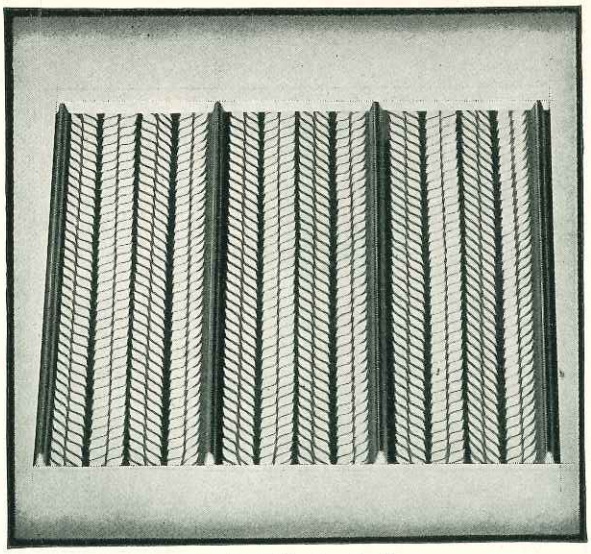
Many builders prefer a wide mesh, heavy strand expanded metal for stucco construction. Truscon Stucco Steel is an excellent material for this type of work. The diamond shaped mesh 1½ x 3 in. has proved to be most satisfactory, and the heavy cross section of the strands adds great strength. Stucco Steel is made in 8-ft. 0-in. lengths only, and in either 2-ft. 0-in. or 4-ft. 0-in. widths. A special type of nail is used for attaching Stucco Steel to sheathing. This nail acts as a furring device, and securely locks the Stucco Steel ⅜ in. from the sheathing.

Wt. in Lbs. per Sq. Yd. Copper Alloy Steel	Size of Sheet Inches	Sheets per Bdl.	Sq. Yds. per Bdl.	Wt. in Lbs. per Bdl.
1.8	24 x 96	9	16	28.8
1.8	48 x 96	9	32	57.6
3.6	24 x 96	5	8-8/9	32.0
3.6	48 x 96	5	17-7/9	64.0

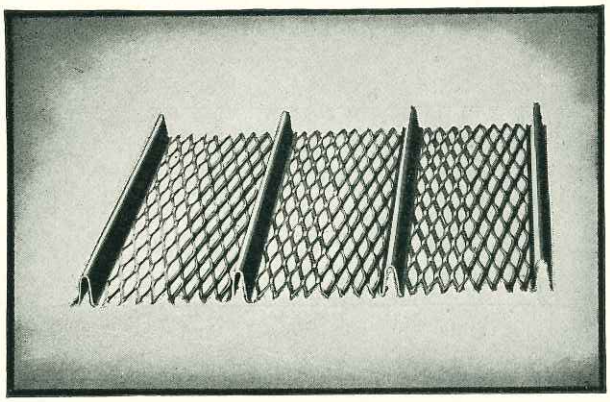


Furring Nails
6 lbs. per 1000 pcs.
Packed 1000 pcs. per carton

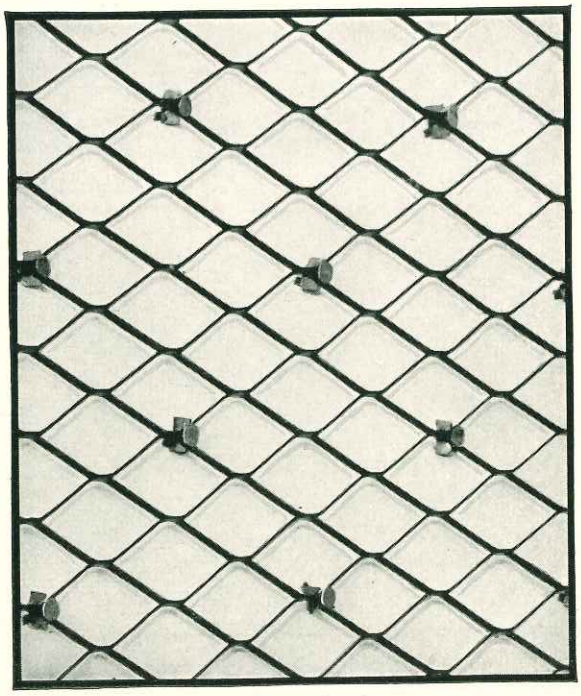
*Reg. U. S. Pat. Off.



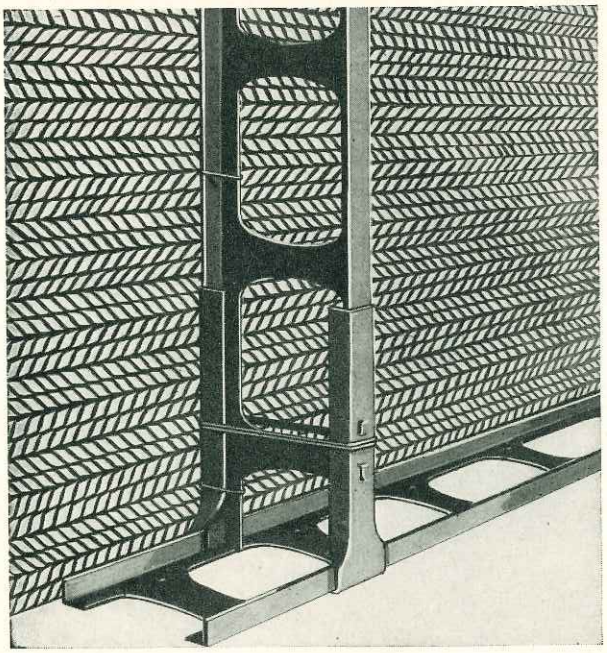
⅜-in. Ribplex Lath



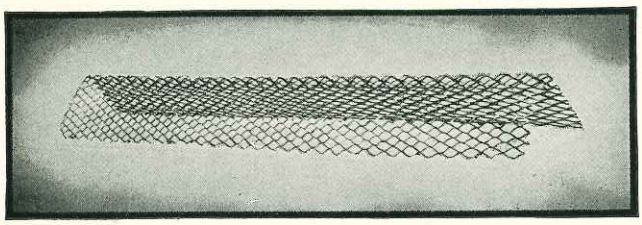
Self-Sentering Lath



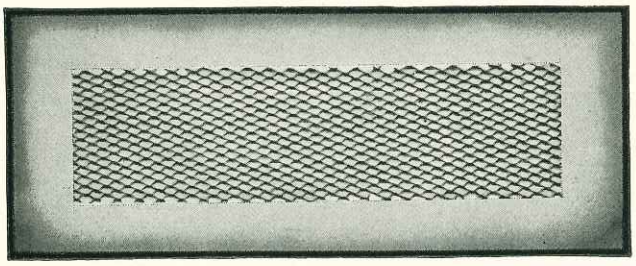
Stucco Mesh



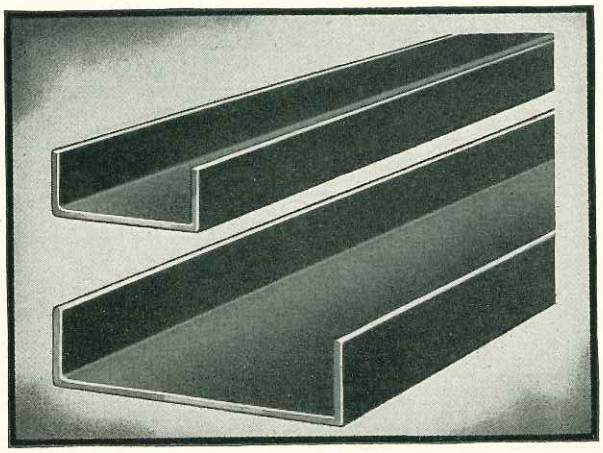
Hollow Partition Studs



Cornerite



Strip-Ite



Cold Rolled Channels

TRUSCON Hollow Partition Studs

Truscon Hollow Partition Studs are fire-safe, provide excellent heat insulation, sound resistance and are rodent and termite proof. They will not swell nor warp and will resist impact, vibration or plaster cracking much more effectively than partitions of masonry or gypsum block.

When metal lath is attached to both sides of these studs, an ideal base for plaster is obtained. There is no necessity for cutting expensive chases for electrical conduits or pipes as the design of these studs provides maximum room for their passage without sacrificing the strength of the studs.

Due to the simplification and light weight of units, labor costs are materially reduced. The adaptability of Truscon Studs permits uninterrupted operation of all trades. After the studs are set, plumbing and electrical work can be started immediately. The partition is then lathed and plastered.

Truscon Hollow Partition Studs when plastered, weigh sixteen to twenty pounds per square foot, depending on the thickness of plaster grounds and consequently permit economical structural design without decreasing strength.

Hollow Partition Studs are fabricated from 16 gauge stock in widths of 3¼″, 4″ and 6″ and lengths up to 20′-0″.

Floor and Ceiling Tracks are of similar design but slightly wider and furnished in standard lengths of 10′-0″.

Studs and Track are furnished painted.

Shoes are 22 gauge 5″ long and four are required for each stud.

TRUSCON Selvedge Edge Cornerite

Truscon Cornerite is a practical and economical reinforcement for all inside plaster corners. Truscon Cornerite is furnished with selvedge edge, and, being machine made, it is straight and true and easy to plaster over.

Furnished in standard sizes of 2 x 2 in. and 3 x 3 in. in 8-ft. 0-in lengths.

Packed 600 lineal feet per bundle.

Weights: 2 x 2 in., 80 lbs. per MLF; 3 x 3 in., 120 lbs. per MLF.

TRUSCON Strip-Ite

Truscon Strip-Ite is furnished with selvedge edges in standard widths of 3 in. in 8-ft. 0-in. lengths.

Packed 600 lineal feet per bundle.

Weight: 3 in., 60 lbs.

TRUSCON Cold Rolled Channels

Truscon Cold Rolled Channels are straight and true with square corners that prevent rolling. Flanges are approximately $\frac{7}{16}$ in. high, widths are ¾ and 1½ in., standard lengths 16 and 20 feet. Furnished painted only.

¾-in. channels shipped 20 pieces to the bundle.

1½-in. channels shipped 10 pieces to the bundle.

Weights per 1000 lineal feet are as follows: ¾-in. channel, 300 lbs.; 1½-in. channel, 475 lbs.

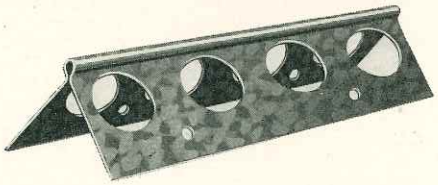
RETURN
DES

TRUSCON Rib Steel Corner Bead

Truscon Rib Steel Corner Bead is also recommended as an exposed corner reinforcement and is manufactured from 26 gauge tight coat galvanized steel, with a perforated flange 1¾-in. wide. Rib Steel Bead can be used as an arch bead for curved openings, by cutting the flange, and bending to shape by hand. It forms a perfect arch and will not kink or break at the nose.

Furnished in standard lengths of 8, 9, 10 and 12 feet.

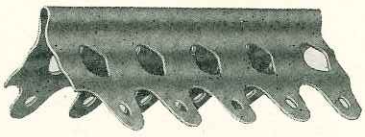
Weight—185 lbs. per thousand lineal feet.



No. 8 Rib Steel Corner Bead

TRUSCON Scalloped Edge Corner Beads

For partitions or furred corners built of metal lath, Scalloped Edge Corner Beads are recommended. The long wing and scalloped edges are designed to give maximum support during construction and will give a better bond after application of plaster. Fabricated from 26 gauge tight coat galvanized steel. Furnished in standard lengths of 8, 9, 10 and 12 feet. Short flange weights, 220 lbs. per thousand lineal feet. Wide flange weights, 320 lbs. per thousand lineal feet.



No.15½ Scalloped Edge Corner Bead

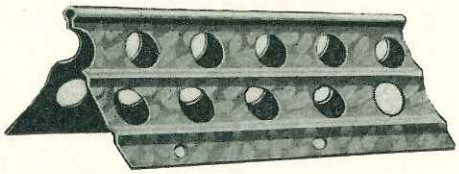
TRUSCON Wide Flange Corner Bead

Truscon Wide Flange Corner Bead is manufactured from 26 gauge tight coat galvanized steel, with a 2½-in. wide flange reinforced with two corrugations spaced 1 in. apart running parallel to its length. Two ⅝-in. diameter holes spaced ½ in. on centers provide exceptional bond for the plaster. This bead is recommended for all kinds of masonry walls, columns, or beams (Gypsum Block, brick, tile or concrete) because it will allow a plumb straight line to be formed, and drop to the long flange can be erected quicker, and will not be pushed out of alignment.

Furnished in standard lengths of 8, 9, 10 and 12 feet.

Weight—330 lbs. per thousand lineal feet.

PATENT OFFICE
JUL 15 1949
DESIGN DIVISION



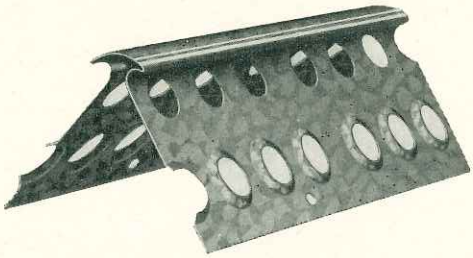
No. 12 Wide Flange Corner Bead

TRUSCON Expanded Corner Bead

Truscon Expanded Corner Bead is used to protect exposed plaster corners and is manufactured from 36 gauge tight coat galvanized steel, with a 2½-in. expanded flange and a heavy shoulder to assure straightness and rigidity. The round nose is strongly reinforced by a deep groove which holds the plaster flush for a perfect bond. Real economies are possible in labor costs in the erection of Truscon Expanded Corner Bead. It can be wired, stapled, nailed, or "stuck" to any kind of wall construction without the use of clips.

Furnished in standard lengths of 8, 9, 10 and 12 feet.

Weight—230 lbs. per thousand lineal feet.

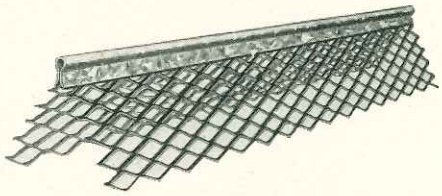


No. 14 Bull Nose Corner Bead
¾" Radius

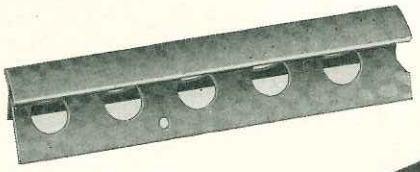
TRUSCON Bull Nose Corner Beads

Used principally to protect plaster at exposed corners and as window casings. Especially recommended for use in corridors of hospitals, schools, and similar buildings where traffic is unusually heavy. Bull Nose Corner Bead is furnished in standard lengths of 7, 8, 9, 10 and 12 feet. Short flange 255 lbs. per M lineal feet. Wide flange 375 pounds per M lineal feet.

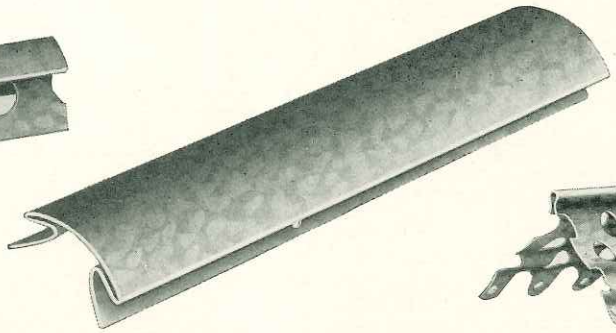
1½" Radius No. 607—390 lbs. per M lineal feet.



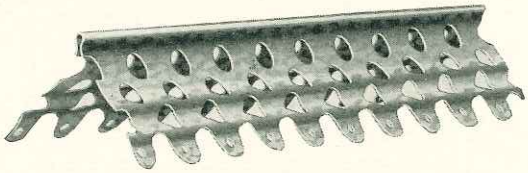
No. 7 Expanded Corner Bead



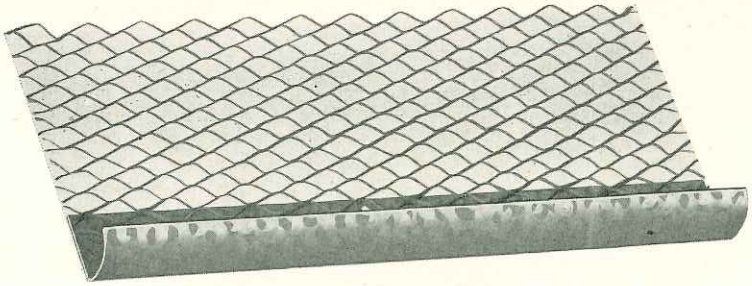
No. 604 Bull Nose Corner Bead
¾" Radius



No. 607 Bull Nose Corner Bead
1½" Radius

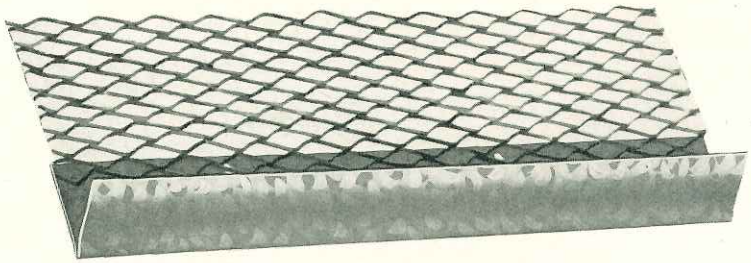


No. 16 Scalloped Edge Corner Bead



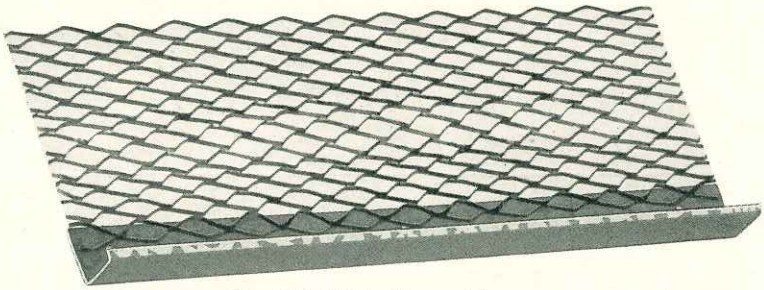
No. 72 Wide Flange Casing

No. 36 Short Flange Casing



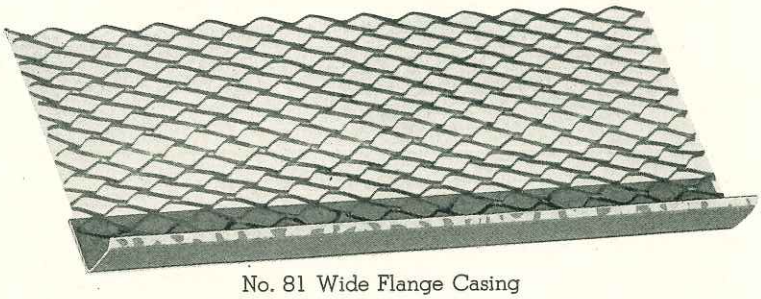
No. 70 Wide Flange Casing

No. 40 Short Flange Casing



No. 34½ Wide Flange Casing

No. 35½ Short Flange Casing



No. 81 Wide Flange Casing

No. 31 Short Flange Casing

TRUSCON Casings

Metal casings meet a definite demand for an artistic and yet strictly sanitary method of trimming around doors and windows. Metal casings are fire-resistant, vermin proof, easy to maintain and do not shrink or warp. All styles of casings are straight and uniform, affording perfect mitres at corners.

Truscon casings are available in short and wide flange types. The short flange casings are designed to be used on lathed walls or partitions and in this case the lath is merely lapped over the short nailing flange. They should not be used without lath.

The wide flanged casings are designed to key the plaster over a rough buck. They are made to meet the varying widths of bucks and it is important that a casing be selected which will entirely cover the buck. The type of expanded flange used is semi-flexible and absorbs effectively all normal shocks and vibrations.

In using flush-with-the-plaster casings, a holding clip (No. 45—illustrated on opposite page) is recommended. This clip holds the nose of the casing tight against the jamb or buck by virtue of spring tension.

Casings are furnished in ½-in. and ¾-in. grounds made from tight coat galvanized 22 gauge steel and furnished in lengths of 7, 8, and 10 feet.

TRUSCON Curved Point Base Screed

Truscon Curved Point Base Screed is manufactured from 26 gauge tight coat galvanized steel. This product is designed to form a smooth curved top for protecting plaster bases of terrazzo, cement or composition, and to protect the top of the base against damage. Curved Point Base Screed also forms a permanent separation between the two materials, and a working line for both in the same manner as Flush Base Screed.

Furnished in standard lengths of 10 ft. 0 in.

Packed 100 pieces per crate.

Weight: 195 lbs. per thousand lineal feet.

TRUSCON Flush Base Screed

Truscon Flush Type Base Screed is manufactured from 26 gauge tight coat galvanized steel. It is used principally for separating two plaster materials of different character, such as separating plaster walls from cement, terrazzo, or composition base, and separating a cement wainscot from ordinary plaster. Another function is to give a permanent straight edge to which both the trades work.

Furnished in standard lengths of 10 ft. 0 in.

Packed 100 pieces per crate.

Weight: 160 lbs. per thousand lineal feet.

TRUSCON Picture Mold

Truscon Picture Molding is used primarily to support pictures and other hanging objects on walls; secondly it provides a dividing line at or near the ceiling for decorative purposes. It provides a recessed groove formed at the proper angle to support a picture hook and in addition serves as a screed to which the plasterer can work. Manufactured from 26 gauge tight coat galvanized steel and furnished in 10′ lengths.

TRUSCON Partition Cap No. 700

Used at ends of 2″ solid plaster partitions, the large rounded heads give maximum protection. Also adaptable as a hand railing on plaster stairways. Face of Partition Cap is fabricated from 16 gauge tight coat galvanized steel. Lengths to order.

TRUSCON Molding No. 51

Metal Molding No. 51 is used between round nose casings and the finish jamb to cover the joint. In addition this molding makes an ideal strip at the juncture of wall and floor. Made from 20 gauge tight coat galvanized steel and furnished in 10′ lengths.

TRUSCON Tie and Hanger Wire

Made from special quality soft annealed wire strengthened by a special process. Tie wire furnished in 16 and 18 gauge galvanized — 25-pound hanks or coils. Hanger wire furnished in No. 8 gauge galvanized coils.

PACKING INFORMATION

Plain Wing, Wide Flange and Expanded Corner Bead

Length	Pcs. per Carton	Feet per Carton
8′-0″	70	560
9′-0″	60	540
10′-0″	50	500
12′-0″	50	600

Furnished in cartons only.

PATENT OFFICE
JUL 15 1949
DESIGN DIVISION

No. 604 and 607 Bull Nose Corner Bead / **No. 14 Bull Nose Corner Bead**

Length	Pcs. per Carton	Feet per Carton	Length	Pcs. per Carton	Feet per Carton
7′-0″	80	560	7′-0″	50	350
8′-0″	70	560	8′-0″	50	400
9′-0″	60	540	9′-0″	40	360
10′-0″	50	500	10′-0″	35	350
12′-0″	50	600	12′-0″	35	420

Cornerite and Stripite

2″ x 2″ x 96″ Cornerite	600 Ft. per Bdl.
3″ x 3″ x 96″ Cornerite	600 Ft. per Bdl.
3″ x 96″ Stripite	600 Ft. per Bdl.

Furnished in bundles only.

Standard and Expanded Flange Casings

Length	Pcs. per Crate	Feet per Crate
7′-0″	80	560
8′-0″	70	560
10′-0″	50	500

No. 1 and 49 Base Screed, Cove Mould and Picture Mould

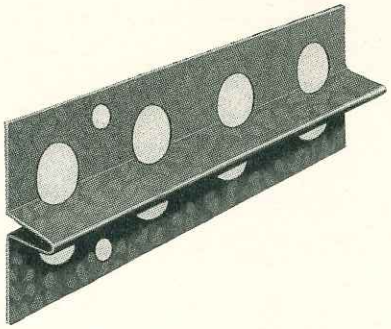
Length	Pcs. per Carton	Feet per Carton
10′-0″	100	1000

No. 3 Base Screed

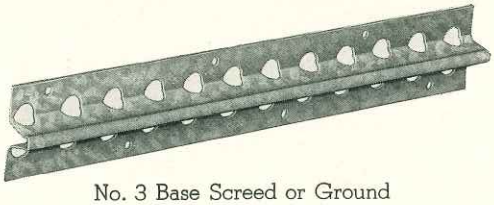
10′-0″	50	500

STYLE	Size of Sheet	Sheets per Bdl.	Sq. Yds. Bdl.
Diamond Lath (Std. or Small Mesh)	27″ x 96″	10	20
Diamond Lath (Std. or Small Mesh)	24″ x 96″	9	16
Herringbone Doublemesh	27″ x 96″	10	20
3/8″ Ribplex	24″ x 96″	9	16
Bostwick Sheet Lath	24″ x 96″	9	16

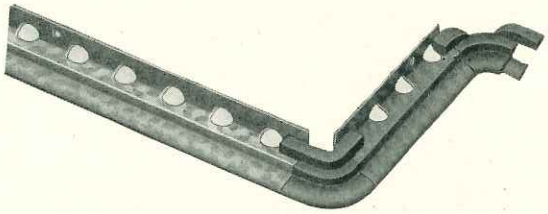
Self-Sentering is 29″ wide by 6′, 8′, 10′ or 12′ long. Trussit lath is 19″ wide by 8′ 10′ or 12′ long. Bundled 10 pieces to a bundle.



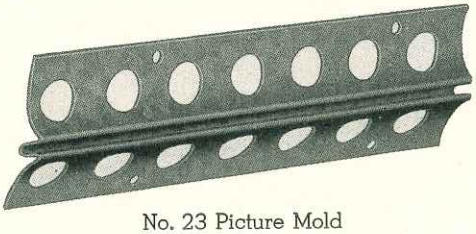
No. 1 Base Screed — Flush Type



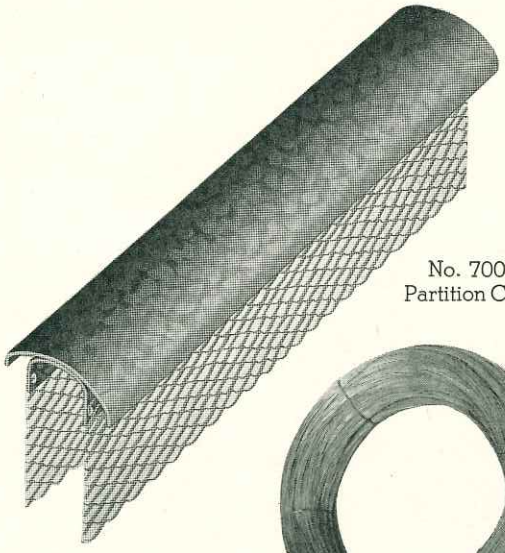
No. 3 Base Screed or Ground



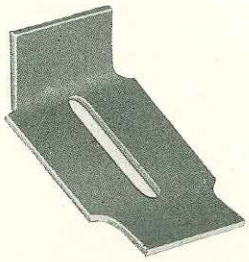
No. 49 Curved Point Base Screed With Corner Fittings



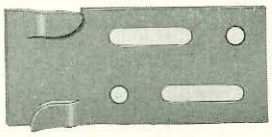
No. 23 Picture Mold



No. 700 Partition Cap



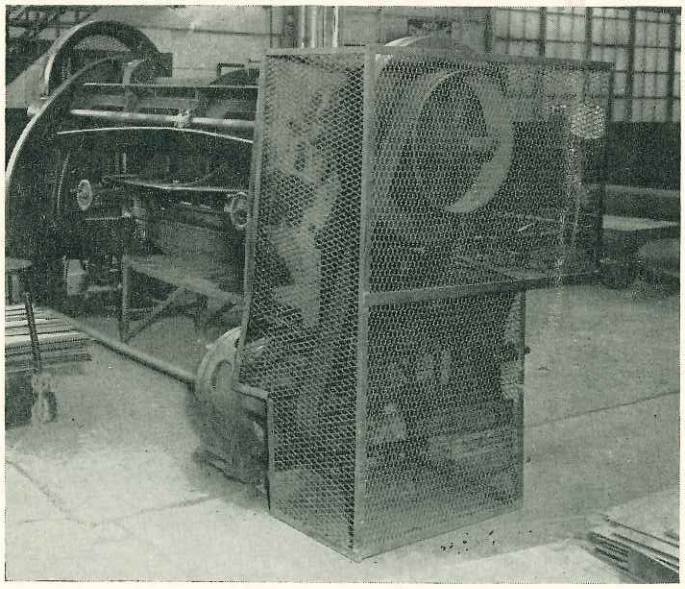
No. 45 Casing Clip



No. 46 Corner Bead Clip

No. 51 Molding

Tie Wire



Truscon Expanded Metal is a diamond mesh fabric expanded into flat sheets from a solid plate of low carbon open hearth steel. The steel is cut and drawn so that regular and even diamonds are formed with uniform strands.

Truscon Expanded Metal is a utility product and can be employed in diversified uses when the nature of the work requires an open mesh material that is strong, light in weight, easy to handle and rigid but workable.

Machine guards, door grilles, partitions, window guards, and similar enclosures are easily fabricated from the smaller size mesh.

PATENT OFFICE
JUL 15 1949
DESIGN DIVISION

TYPES AND PROPERTIES

Type Number	Size of Diamond C-C of Strand	Gauge	Weight Lbs. per sq. ft.	Standard Sizes of Sheets		Cross Sectional Area
				Lengths Long Way of Diamond	Widths Short Way of Diamond	
1⅜-06	1⅜″ x 3″	17	.20	8′	2′, 4′	.06
1⅜-12	1⅜″ x 3″	17	.40	8′	2′, 4′	.12
½-22	½″ x 1.2″	18	.74	6′, 8′	3′, 4′-6″	.22
¾-15	¾″ x 2″	16	.51	6′, 8′	4′-4″, 6′-6″	.15
¾-24	¾″ x 2″	12	.80	6′, 8′	4′-4″, 6′-6″	.24
¾-35	¾″ x 2″	10	1.19	6′, 8′	3′, 4′-6″	.35
1⅜-18	1⅜″ x 3″	12	.60	6′, 8′	3′, 4′-6″, 6′	.18
1⅜-24	1⅜″ x 3″	12	.80	6′, 8′	3′-6″, 7′	.24
1⅜-35	1⅜″ x 3″	10	1.19	6′, 8′	3′, 4′, 6′	.35

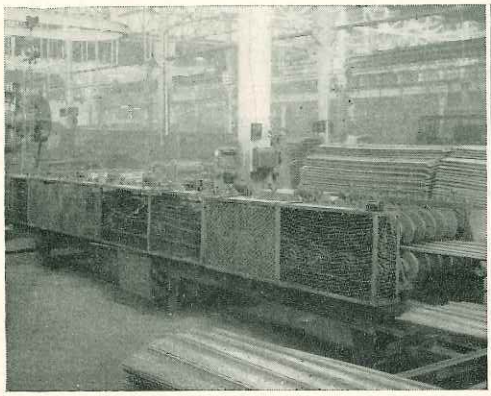
Furnished plain, painted, enameled, bonderized, galvanized or expanded from aluminum and stainless steel.

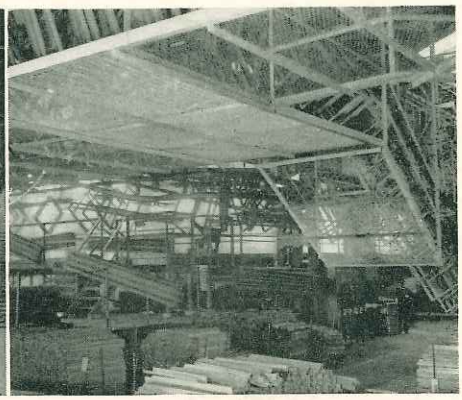
OTHER USES FOR TRUSCON EXPANDED METAL

In addition to the more general uses illustrated, Truscon Expanded Metal can be economically used in the manufacture of such products as:

TREE BOXES — HOT AIR REGISTERS — LOUVERS — RADIATOR COVERS
REFUSE BURNERS — AIR FILTERS — WASTE BASKETS — TRUCK BODY ENCLOSURES
GLOBE PROTECTORS for ELECTRIC LIGHTS

RETURN TO DESIGN DIV.





No. B-500 5M 8-48 Printed in U.S.A.